

FIG. 2

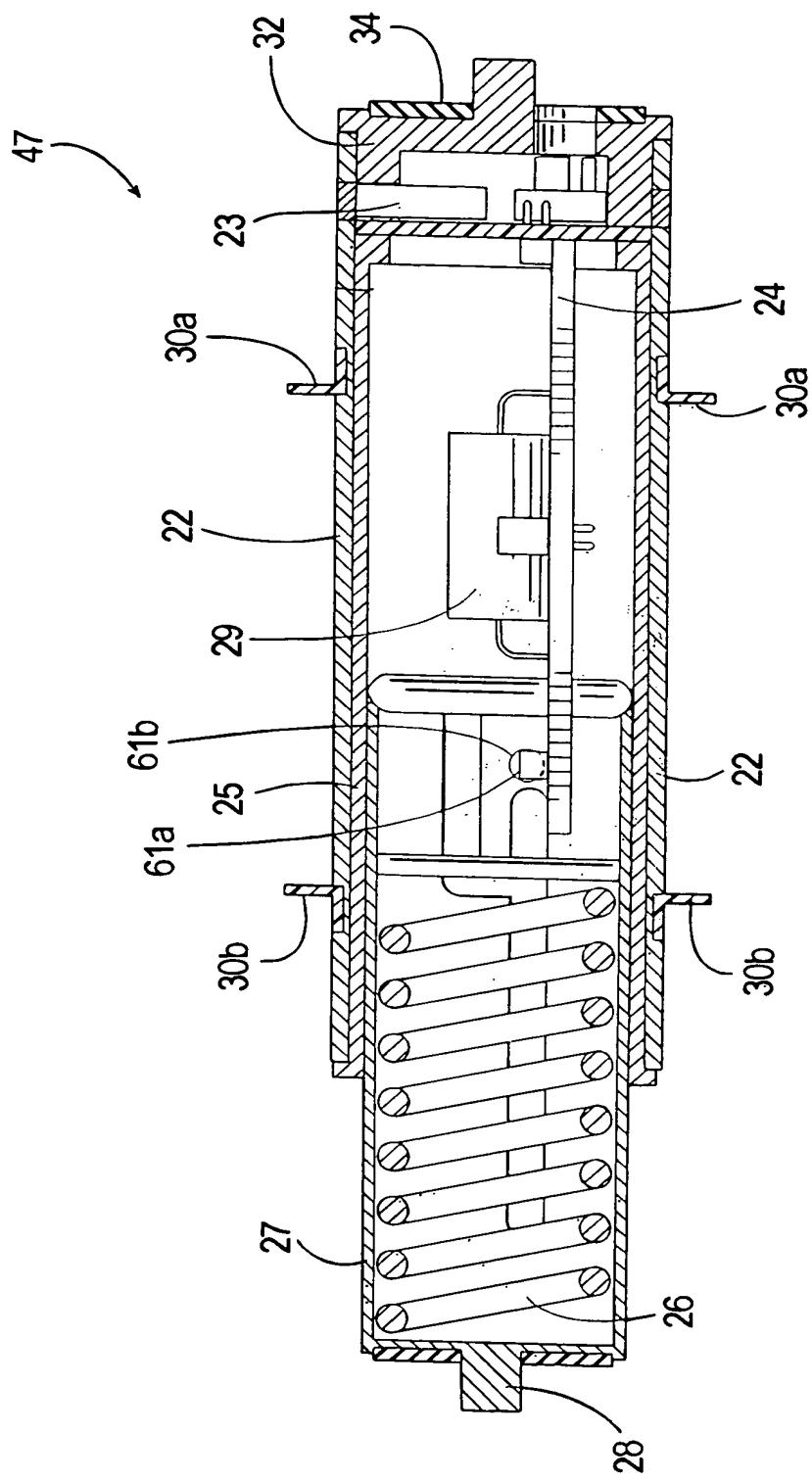


FIG. 3

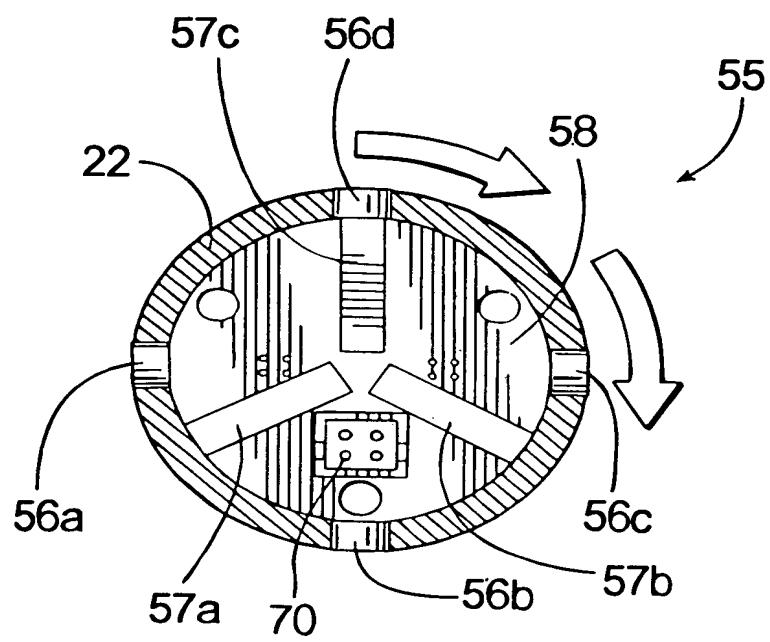


FIG. 4

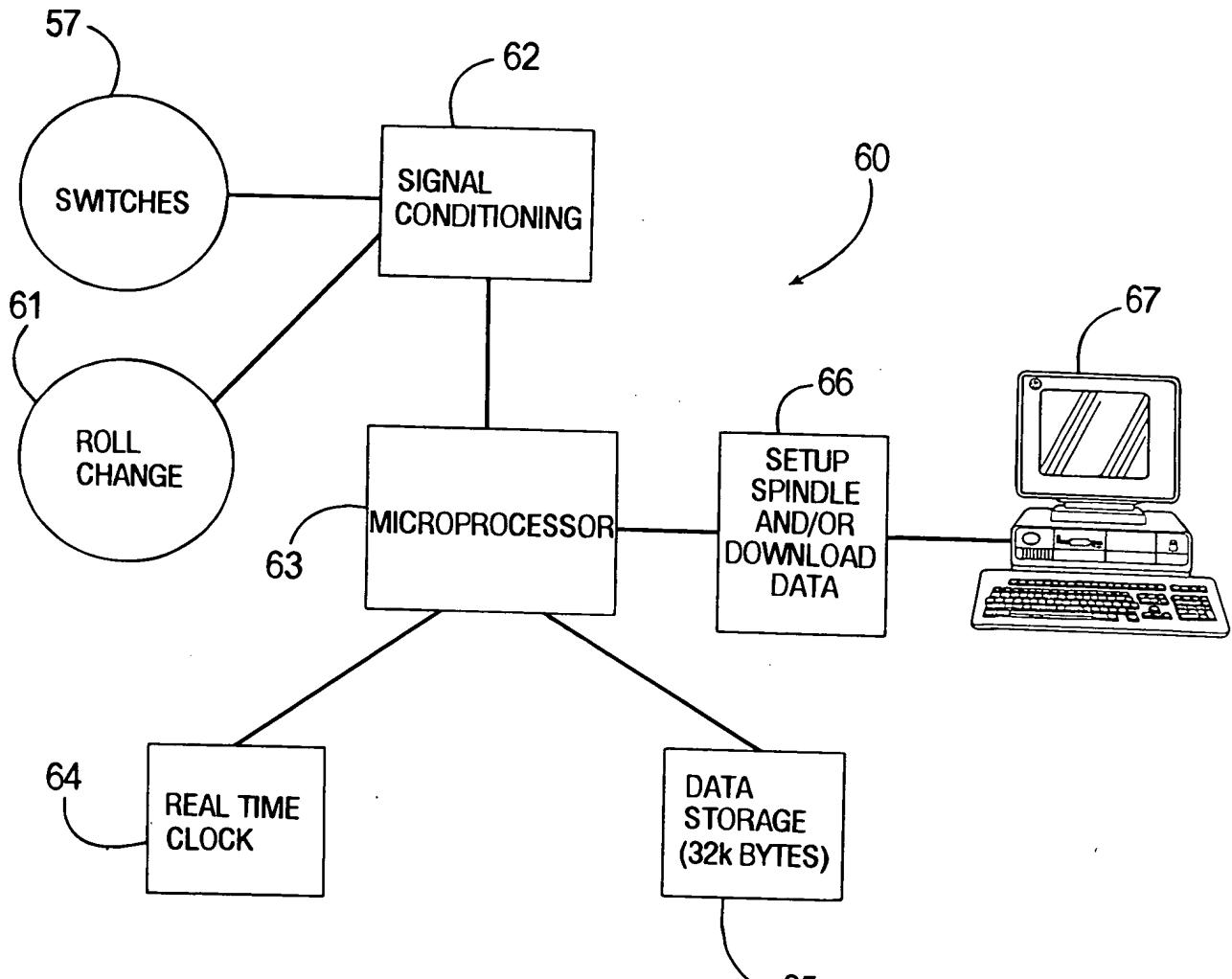
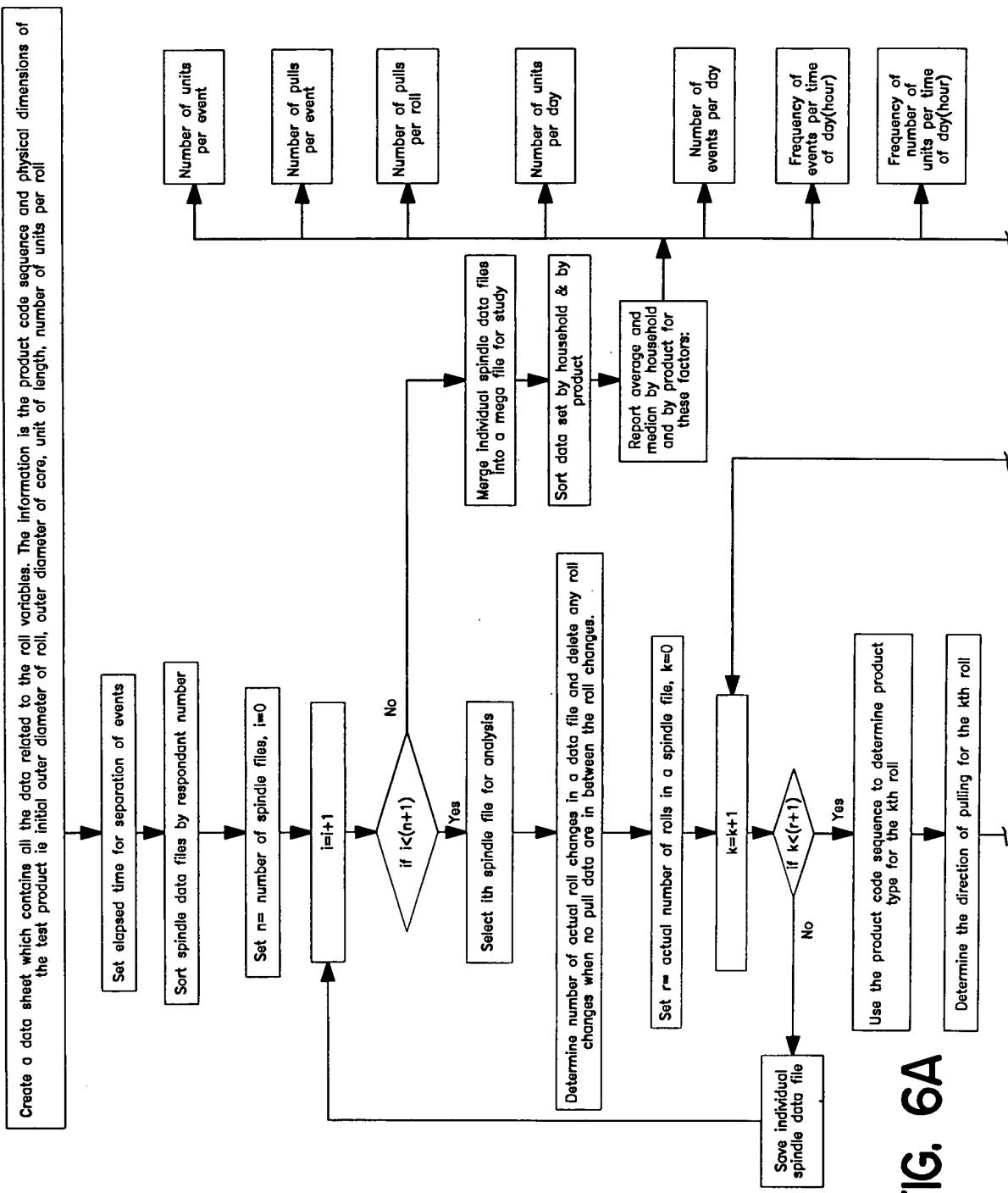


FIG. 5



**FIG. 6A**

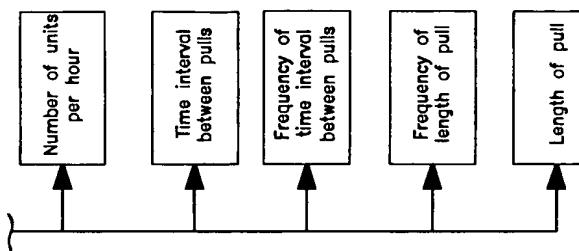
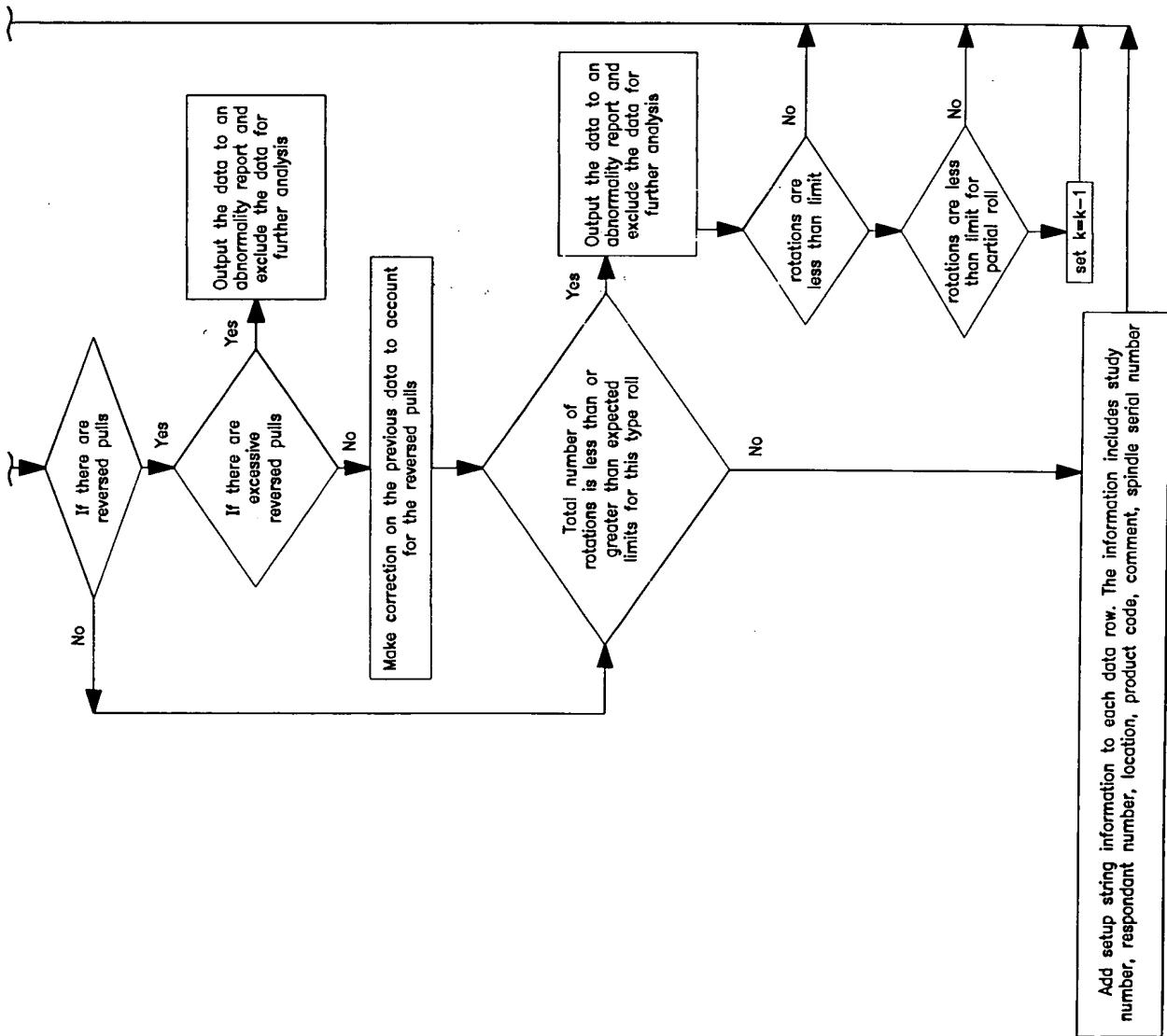


FIG. 6B



## Use of Smart Spindl for toilet paper utility in Consumer Home

Establish test plan matrix and save it—  
 Respondant number  
 Number of locations per respondent  
 Products in test  
 Number of rolls per product  
 Product code sequence (= sequence of use + number of rolls per product)

Determine test set up string is SSSSSSSNNNNRCCCXXXXXXXXXXXXLLL  
 where  
 SSSSSSS—study number  
 NNNNN—respondant number  
 R—location number  
 CCC—product code sequence  
 XXXXXXXXXXXXXX—any 15 characters  
 LLLL—serial number of spindle

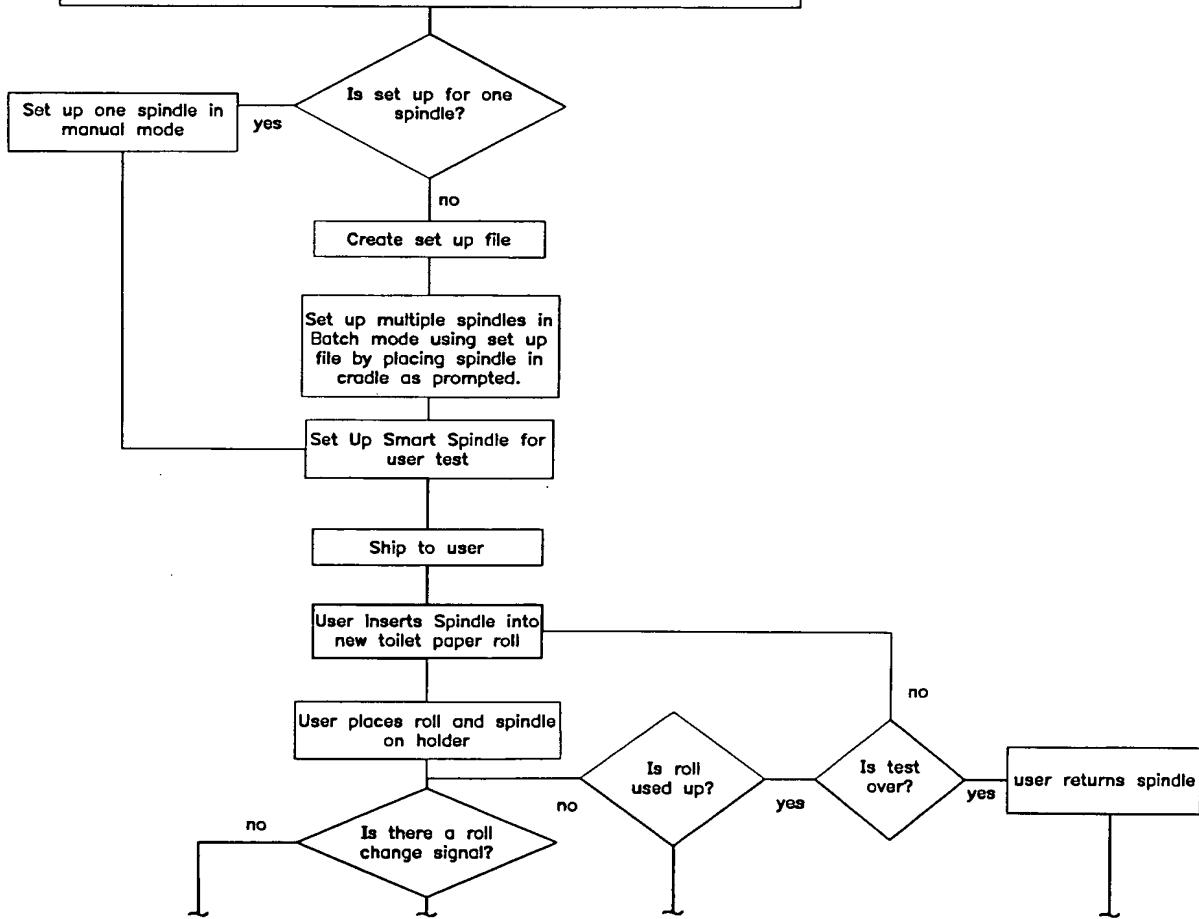


FIG. 7A

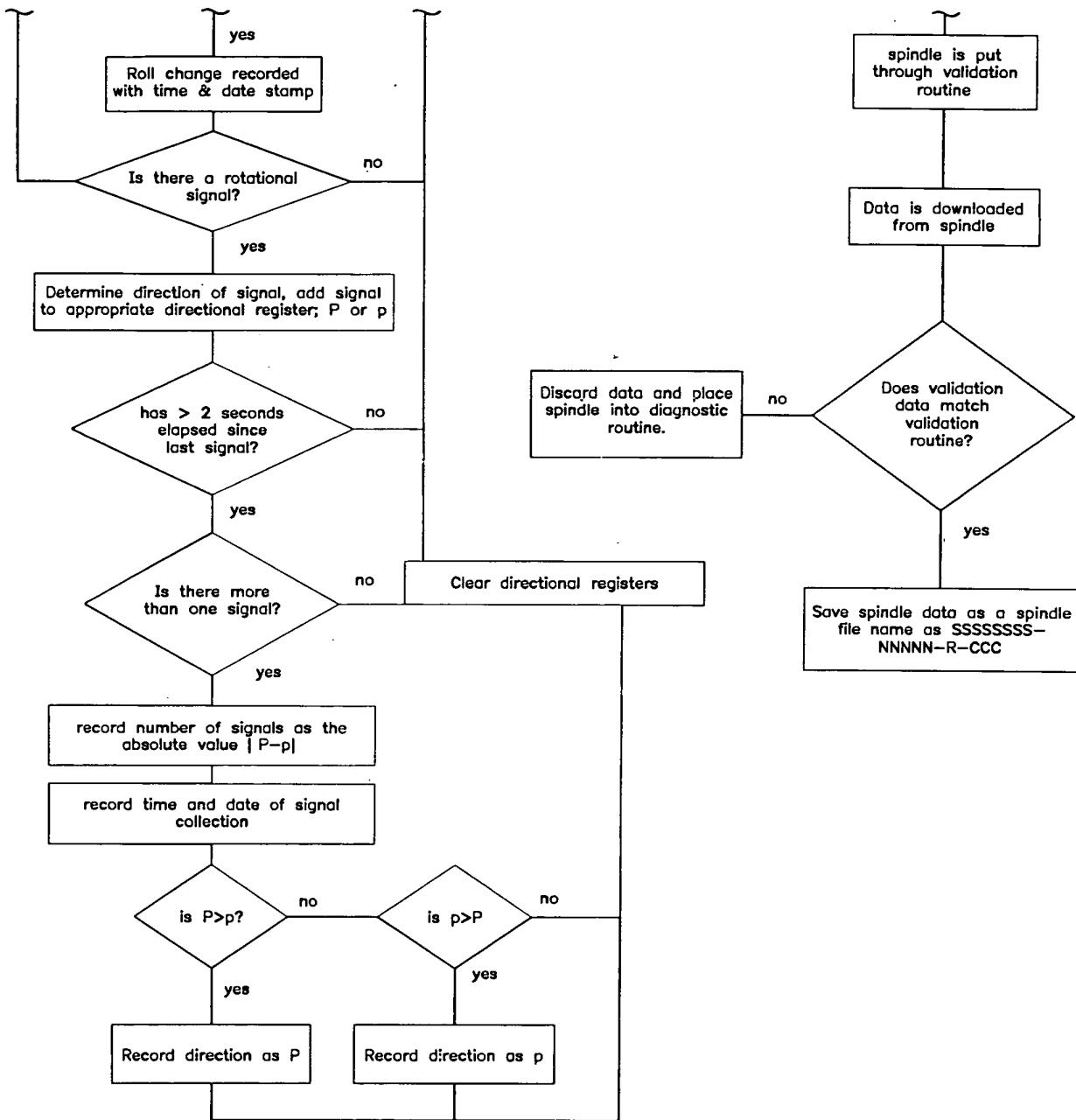
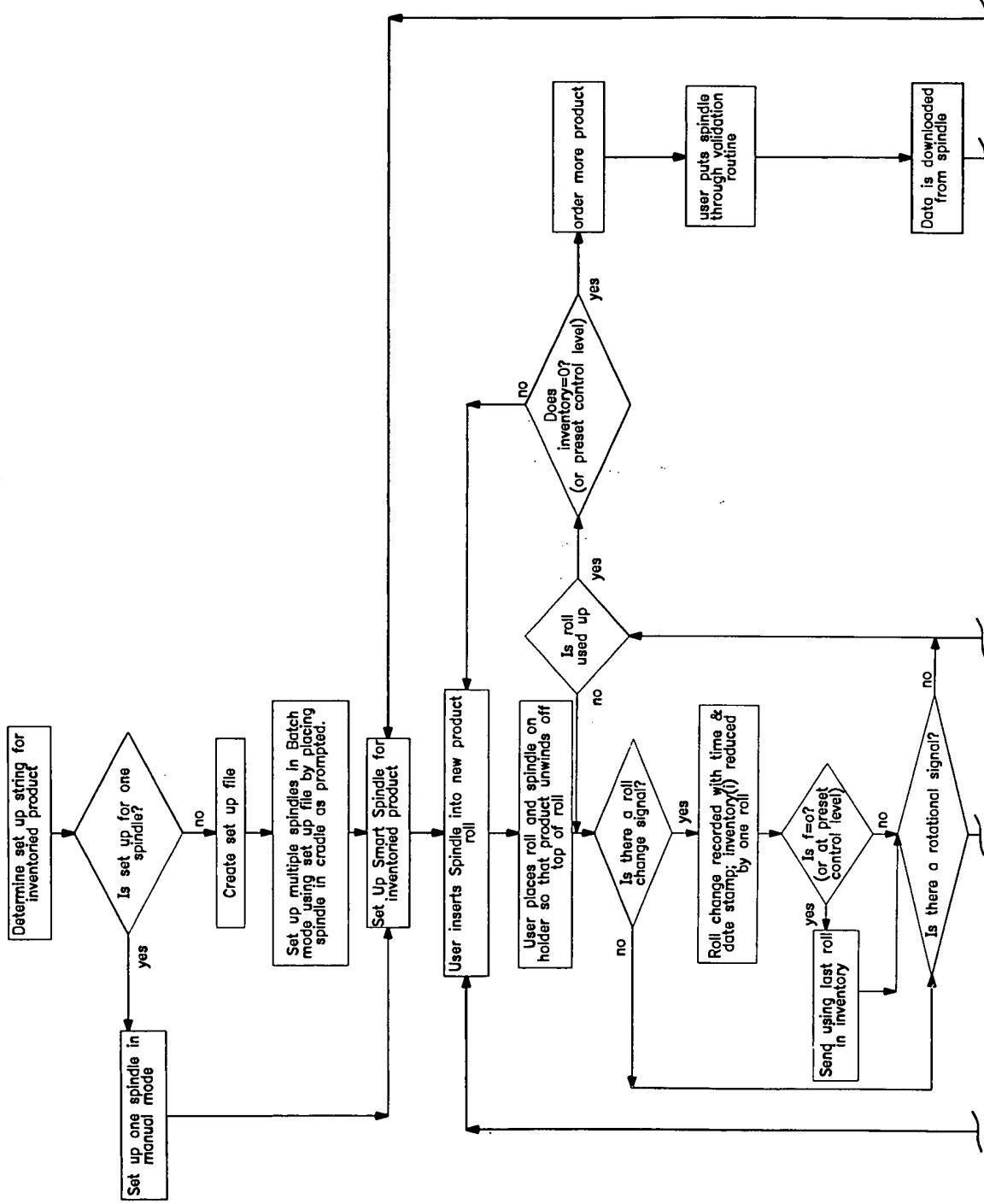
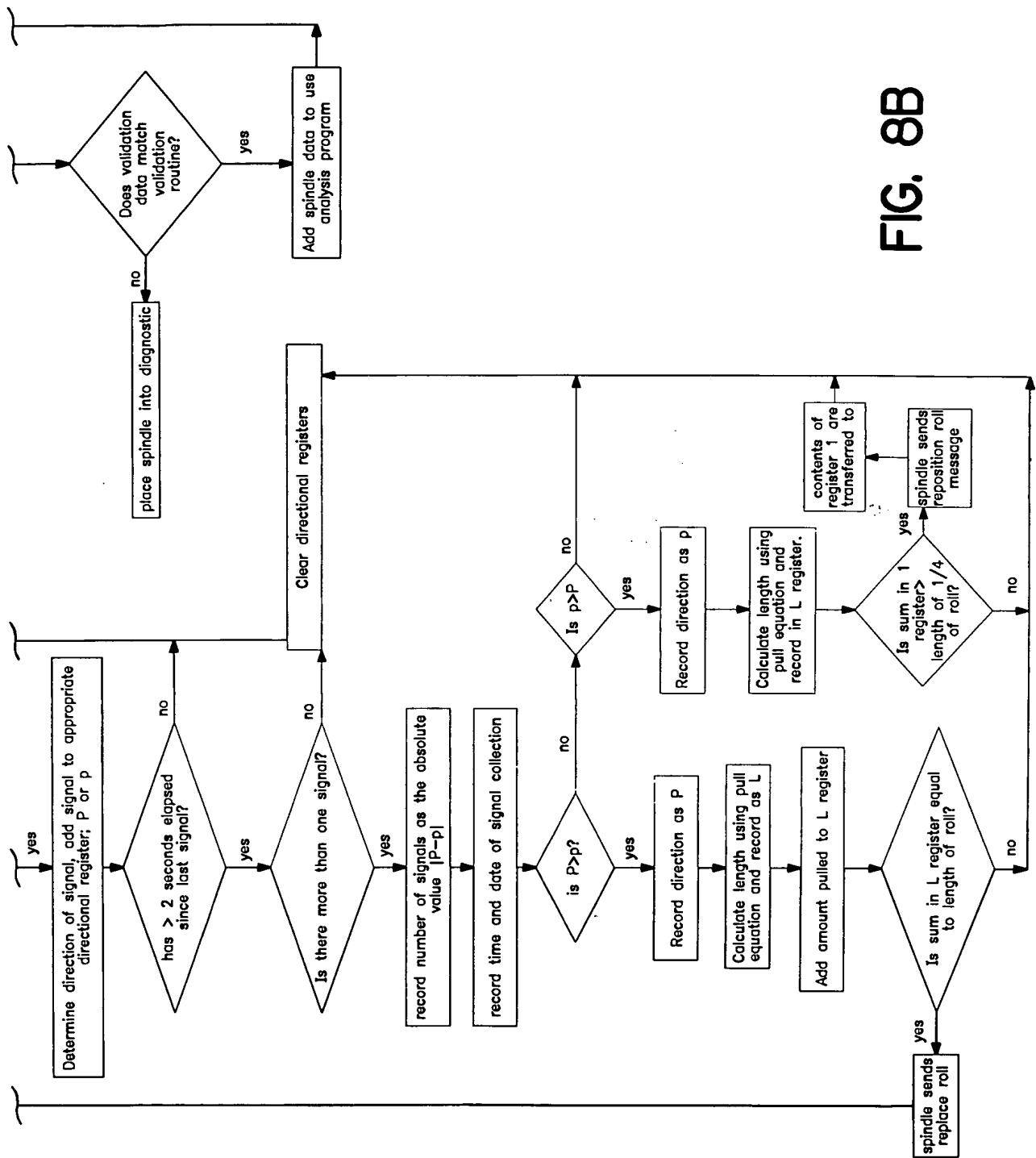


FIG. 7B

## Use of Smart Spindle to control an inventory in Consumer Home, retailstore

**FIG. 8A**





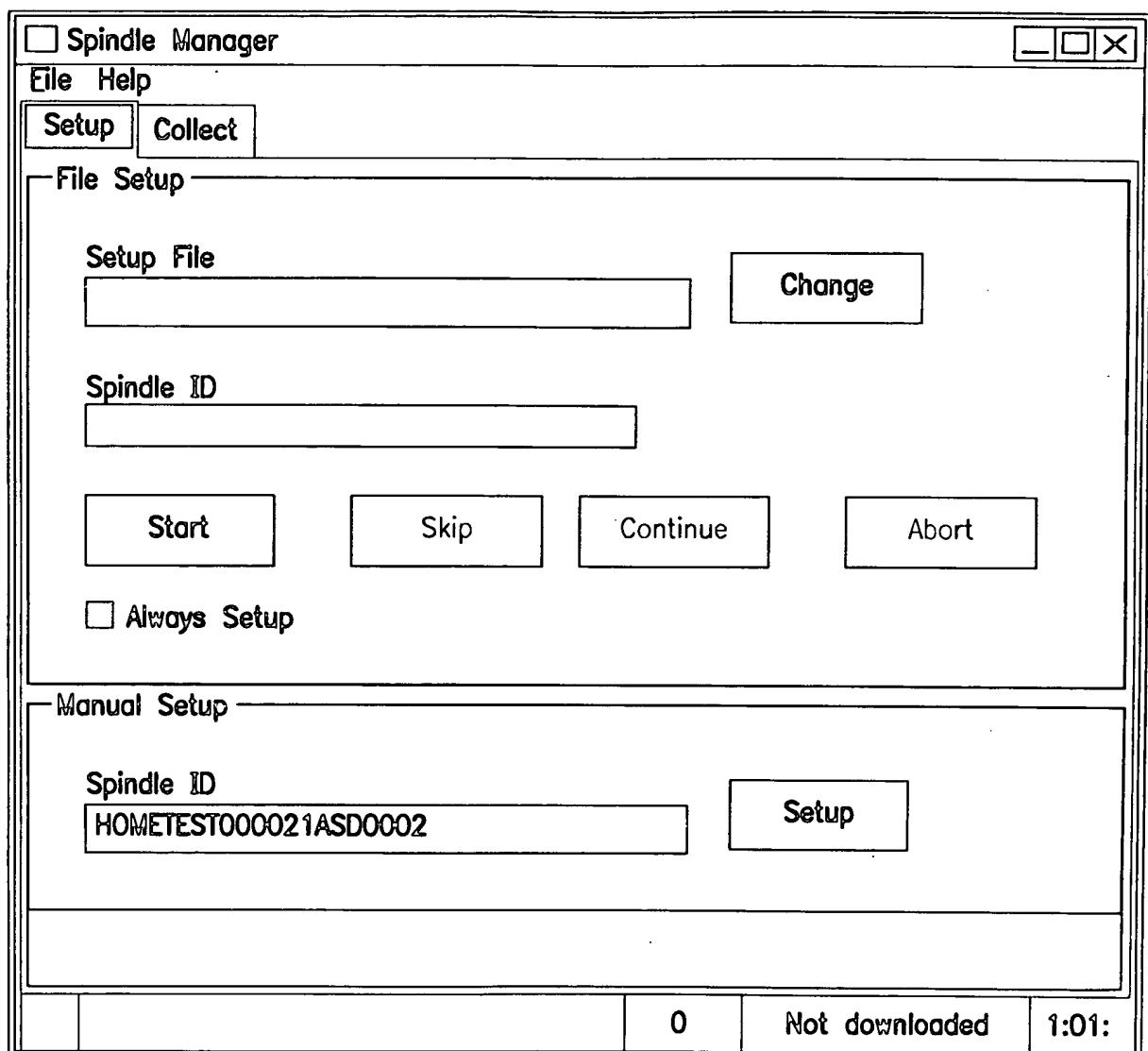


FIG. 9

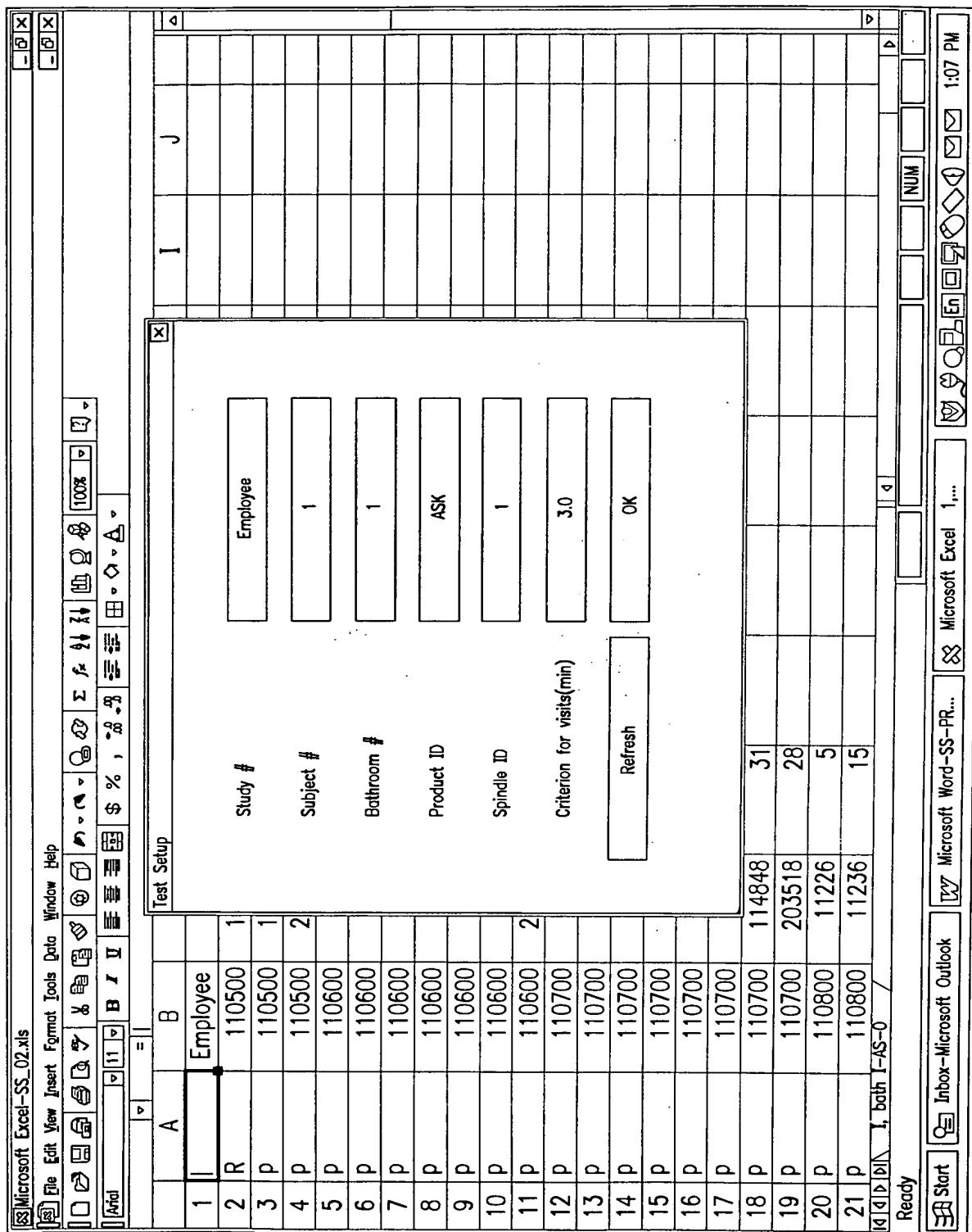


FIG. 10

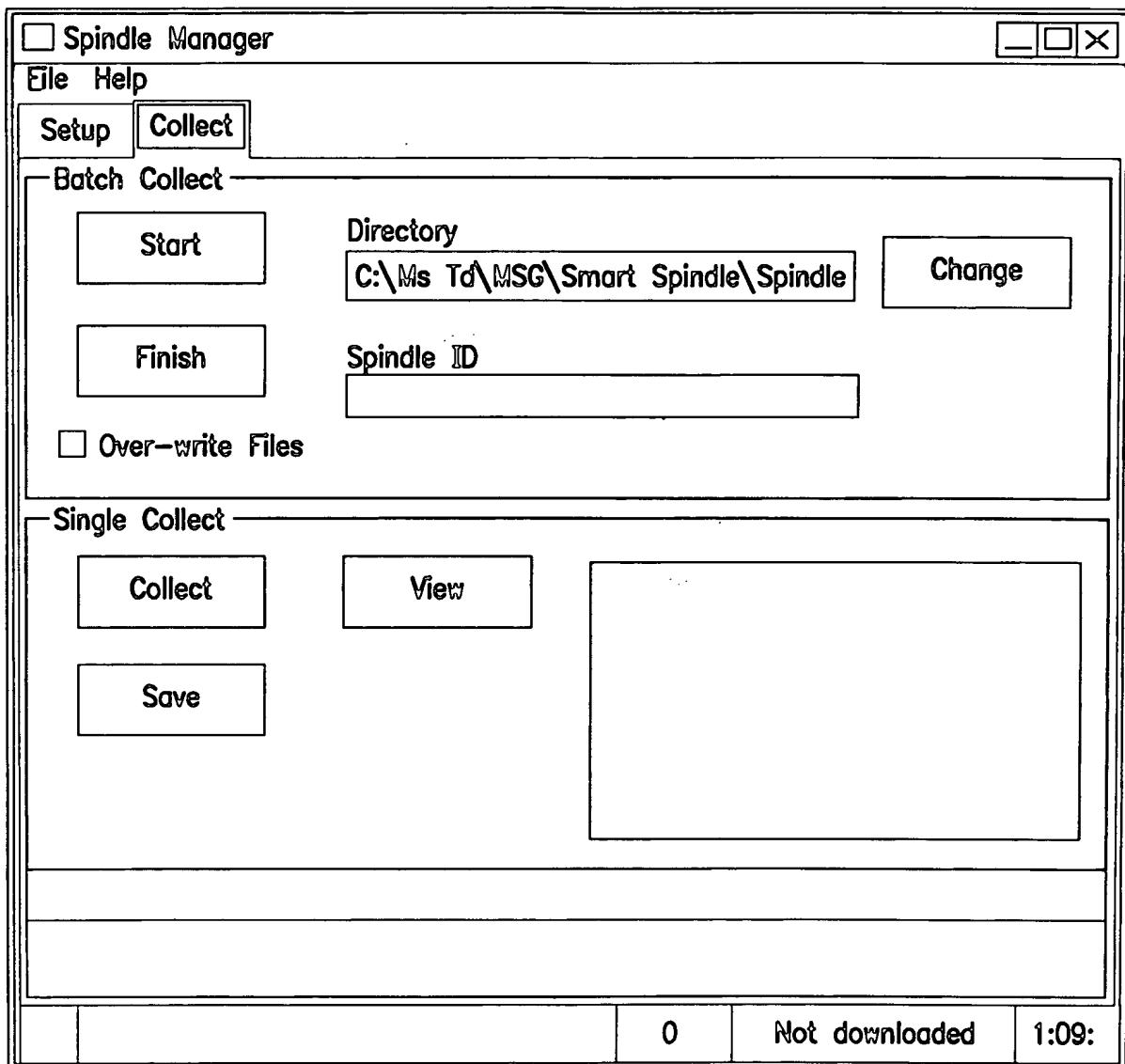


FIG. 11

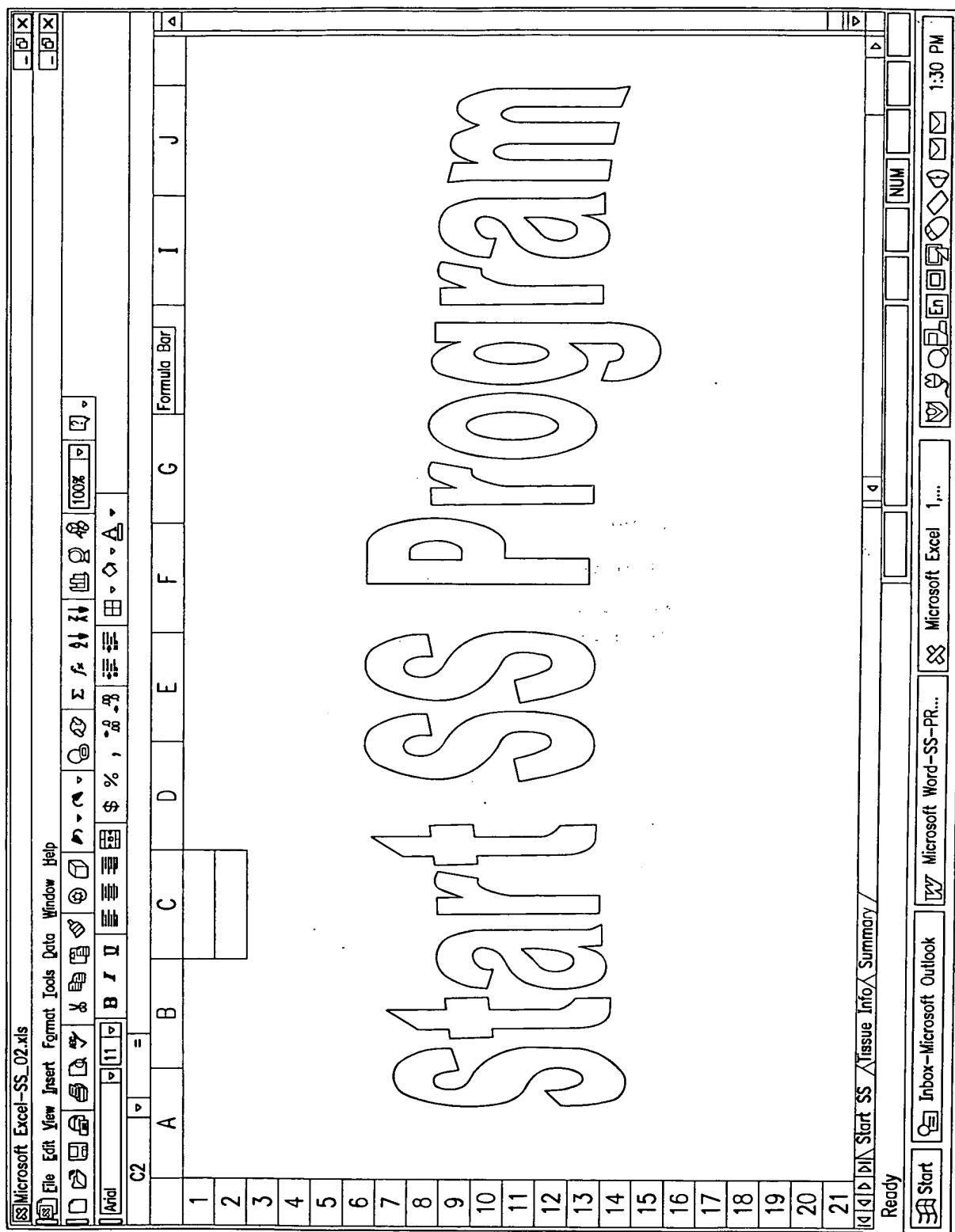


FIG. 12

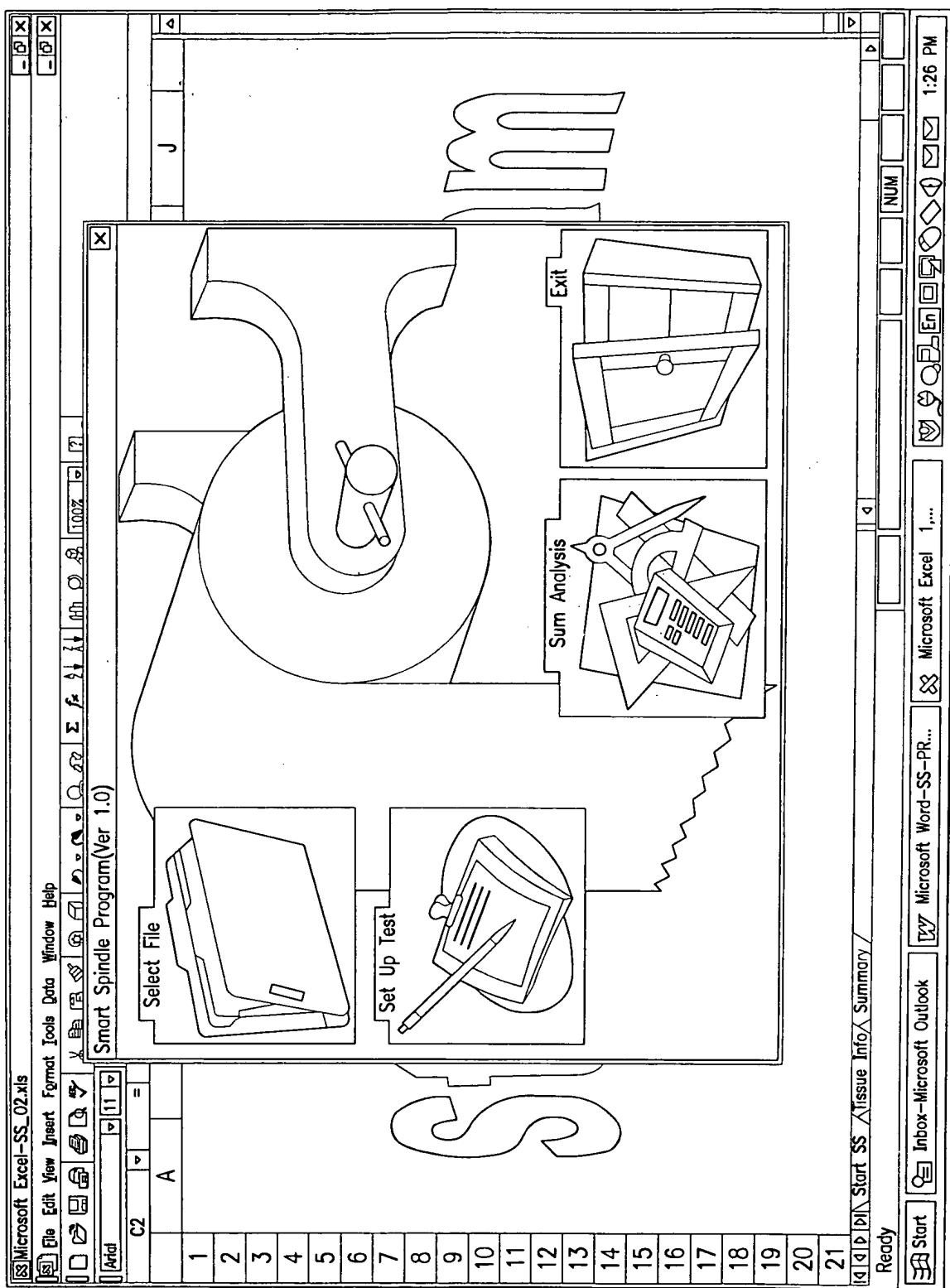


FIG. 13